

After the title and before the "BACKGROUND OF THE INVENTION" insert the following:

-- CROSS-REFERENCE TO OTHER RELATED APPLICATIONS

This application is a continuation of U.S. Patent Application Serial No. 08/342,667, filed on November 21, 1994 (now abandoned), which is a continuation of U.S. Patent Application Serial No. 07/805,274, filed on December 10, 1991 (also abandoned), which is a division of U.S. Patent Application Serial No. 07/607,787, filed on October 26, 1990 (abandoned). Serial No. 07/607,787 is a continuation of U.S. Patent Application Serial No. 06/922,757, filed on October 24, 1986 (abandoned), which is a continuation of U.S. Patent Application Serial No. 06/491,929, filed on May 5, 1983 (abandoned). --

In the Specification:

Page 2, lines 2 and 3, after "Chard," (in line 2), change "North Holland Publishing Company" to -- Elsevier Science Publishers B.V. (Biomedical Division) -- .

Page 3, line 19, after "ibid" change "35" to -- 5 -- .

Page 12, line 2, change "Fungii" to -- Fungi -- .

Delete the paragraph beginning on page 20, line 20, and continuing through page 21, line 6; and replace with the following new paragraph:

-- A thorough description of various non-radioactive signal generating systems, both biotin/avidin-based and nonbiotin/avidin-based can be found in U.S. Patent Nos. 5,328,824; 5,449,767; 5,476,928; 4,711,955 and 5,241,060. The first patent, Ward et al., U.S. Patent No. 5,328,824, titled "Methods of Using Labeled Nucleotides," issued on July 12, 1994, based on Serial No. 07/130,070, filed on December 8, 1987, which is a division of Serial No. 06/496,915, filed on May

23, 1983, the latter application having also issued on December 8, 1987 as the fourth listed patent, Ward et al., U.S. Patent No. 4,711,955, being titled "Modified Nucleotides and Methods of Preparing and Using Same." Serial No. 06/496,915 is a continuation of Serial No. 06/255,223, filed April 17, 1981, abandoned. The second patent, Ward et al., U.S. Patent No. 5,449,767, titled "Modified Polynucleotides and Methods of Preparing Same," issued on September 12, 1995, based on Serial No. 07/886,660, filed on May 20, 1992, which is a continuation of Serial No. 07/130,002, filed on December 8, 1987, the latter being a division of the aforementioned Serial No. 06/496,915. The third patent, Ward et al., U.S. Patent No. 5,476,928, titled "Modified Nucleotides And Polynucleotides And Complexes Formed Therefrom," issued on December 19, 1995, based on Serial No. 07/841,910, filed on February 26, 1992, which is a continuation of the aforementioned Serial No. 07/130,002. The fifth patent, Engelhardt et al., U.S. Patent No. 5,241,060, titled "Base Moiety-Labeled Nucleotide," issued on August 31, 1994, based on Serial No. 07/532,704, filed on June 4, 1990, which is a division of Serial No. 07/140,980, filed January 5, 1988, abandoned, which is a continuation of Serial No. 06/674,352, filed November 21, 1984, abandoned, which is a continuation application of Serial No. 06/391,440, filed June 23, 1982, also abandoned. The contents of the aforementioned U.S. Patents Nos. 5,328,824; 5,449,767; 5,476,928; 4,711,955 and 5,241,060, are herein fully incorporated by reference. --

Page 21, line 7, change "signal generating" to -- polynucleotide -- .

Page 37, line 23, after "Three" and before "of Biotin - NHS ester" change "milimoles" to -- millimoles -- .

Page 44, line 12, change "Ni63" to -- ^{63}Ni --.

Page 44, line 21, change "696-78" to -- 69-78 --.